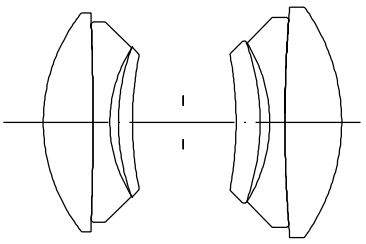
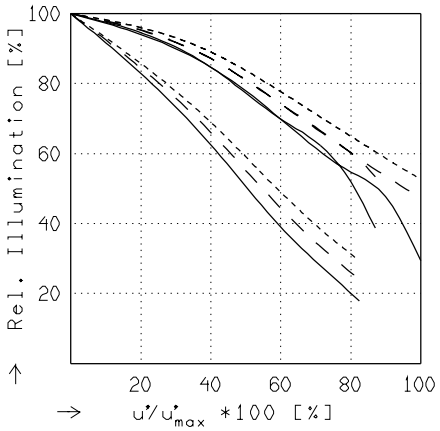
APO-SYMMAR 5.6/180

f'	= 180.8 mm	β'_P	= 1.011
s_F	= -149.4 mm	s_{EP}	= 29.3 mm
s'_F	= 149.7 mm	s'_{AP}	= -33.1 mm
HH'	= -3.5 mm	Σd	= 58.9 mm



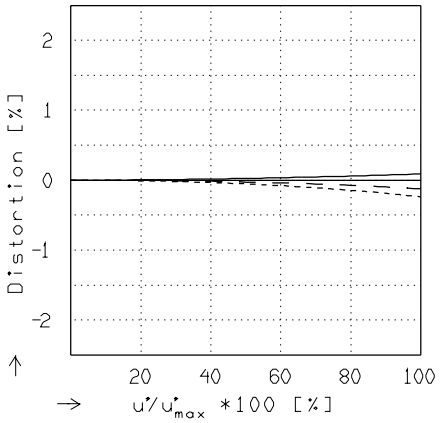


RELATIVE ILLUMINATION

The relativ illumination is shown for the given focal distances or magnifications.

f / 5.6 f / 11.0 f / 22.0

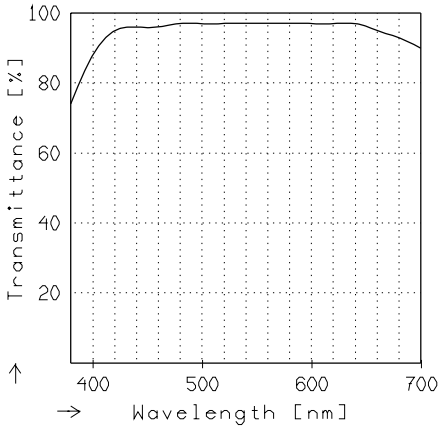
—— β' = 0.0000 u'_{max} = 131.6 OO' = ∞
— — β' = -0.1000 u'_{max} = 131.3 OO' = 2184.
----- β' = -0.2000 u'_{max} = 131.2 OO' = 1298.



DISTORTION

Distortion is shown for the given focal distances or magnifications. Positive values indicate pincushion distortion and negative values barrel distortion.

—— β' = 0.0000 u'_{max} = 131.6 OO' = ∞
— — β' = -0.1000 u'_{max} = 131.3 OO' = 2184.
----- β' = -0.2000 u'_{max} = 131.2 OO' = 1298.



TRANSMITTANCE

Relative spectral transmittance is shown with reference to wavelength.

Jos. Schneider Optische Werke GmbH
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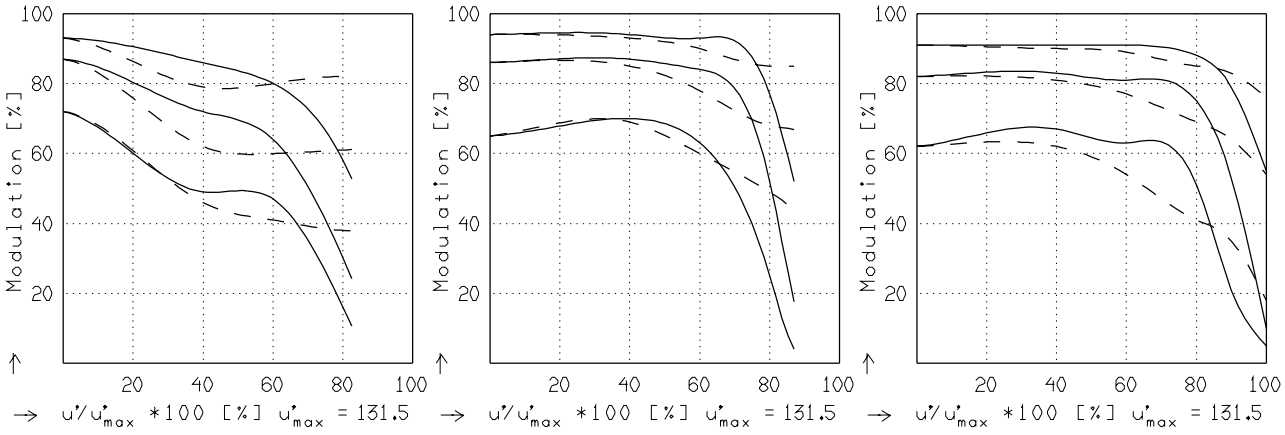
APO-SYMMAR 5.6/180

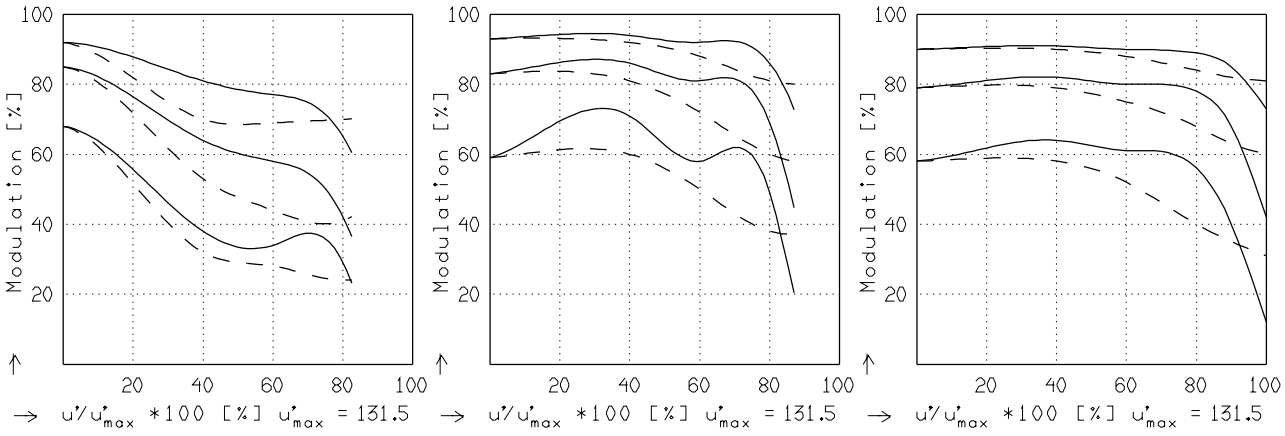
MODULATION with reference to the relative image height

Wavelength λ [nm] :	546	644	588	480	436	405
Spectral weighting [%] :	24.6	18.6	22.1	12.4	15.2	7.1
Spatial frequency R [1/mm] :	5	10	20			
Image-Ø f / 5.6 [mm] :	217.0					
Image-Ø f / 22.0 [mm] :	263.0					

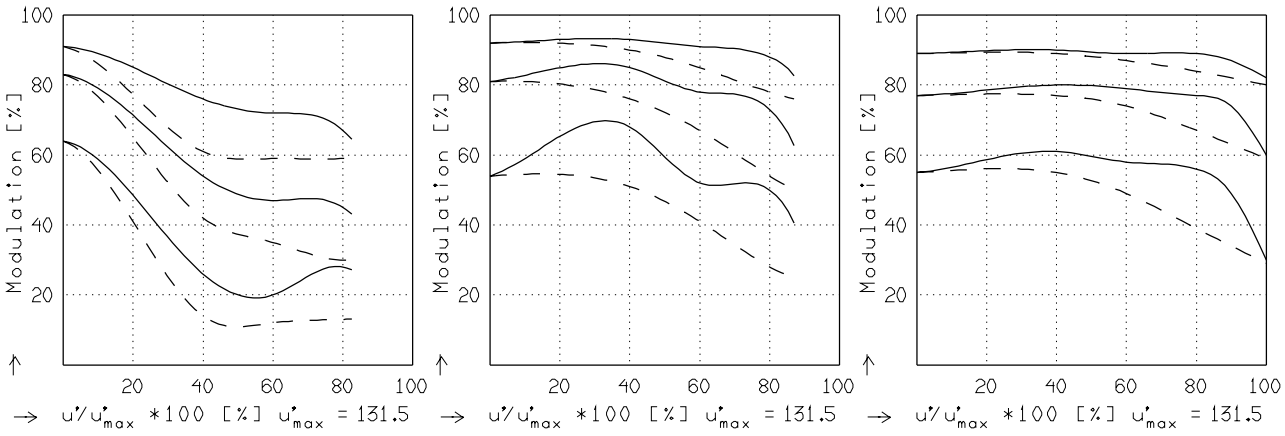
radial ——
tangential — —



f' = 180.8 f/ 5.6 1/ß' = ∞ OO' = ∞ | f' = 180.8 f/ 11.0 1/ß' = ∞ OO' = ∞ | f' = 180.8 f/ 22.0 1/ß' = ∞ OO' = ∞



f' = 180.8 f/ 5.6 1/ß' = -10.00 OO' = 2184. | f' = 180.8 f/ 11.0 1/ß' = -10.00 OO' = 2184. | f' = 180.8 f/ 22.0 1/ß' = -10.00 OO' = 2184.



f' = 180.8 f/ 5.6 1/ß' = -5.00 OO' = 1298. | f' = 180.8 f/ 11.0 1/ß' = -5.00 OO' = 1298. | f' = 180.8 f/ 22.0 1/ß' = -5.00 OO' = 1298.

Focusing : MTF_{max} at f / 5.6 , R = 20 1/mm, u'/u'_{max} = 0

-0,580 -0,580 -0,580 -0,580

-0,460 -0,460 -0,460 -0,460

-0,360 -0,360 -0,360 -0,360

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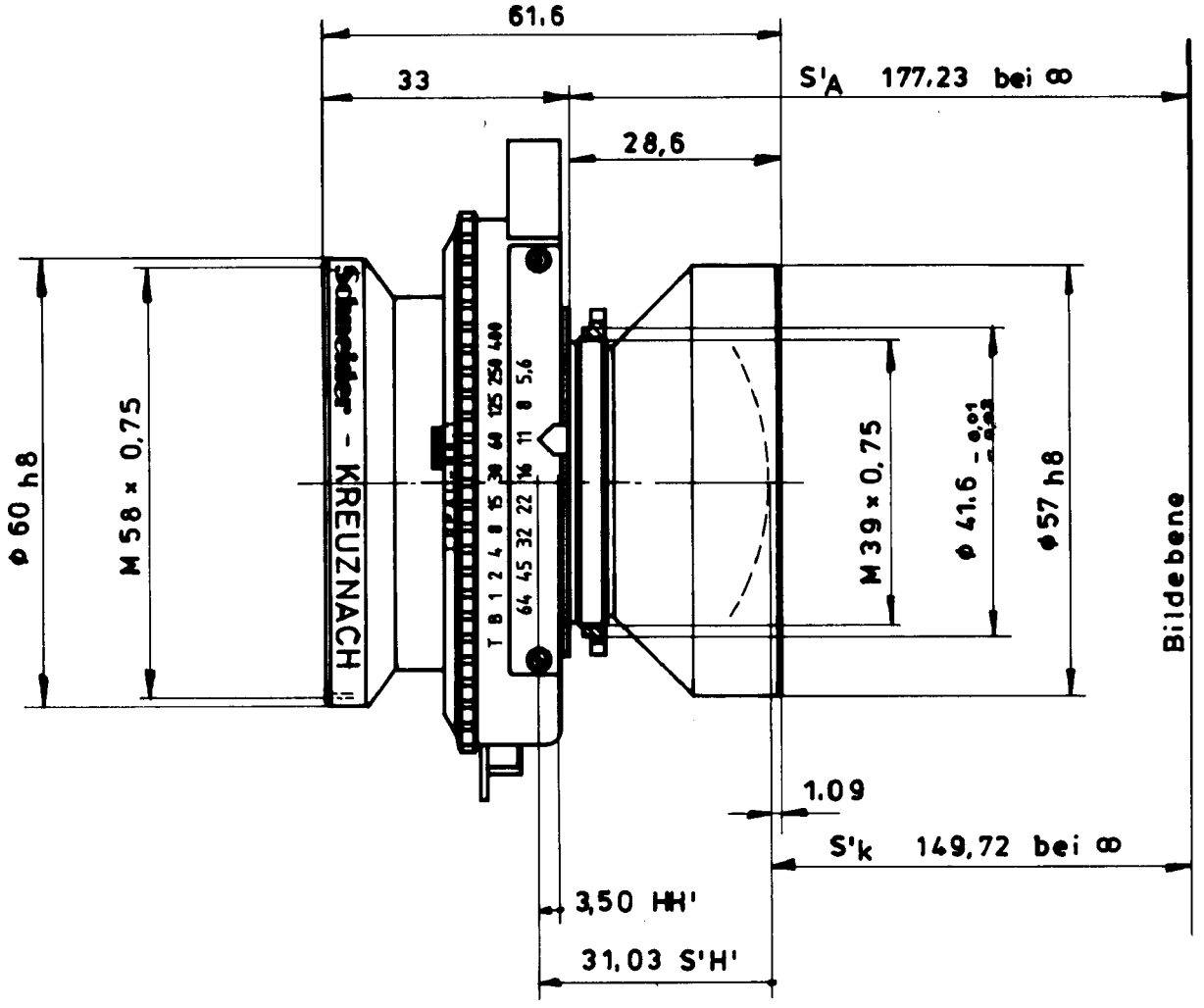
61,6
33
S'A 177,23 bei ∞
28,6
Ø 60 h8
M 58 × 0,75
Schneider - KREUZNACH
M 39 × 0,75
Ø 41,6 -0,01 -0,03
Ø 57 h8
Bildebene
1.09
S'k 149,72 bei ∞
3,50 HH'
31,03 S'H'